

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P226481

Luminaire Tested: **IST-AF-1000-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-1000-LED-E1-T3-7050
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6067.8 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B1 - U1 - G2

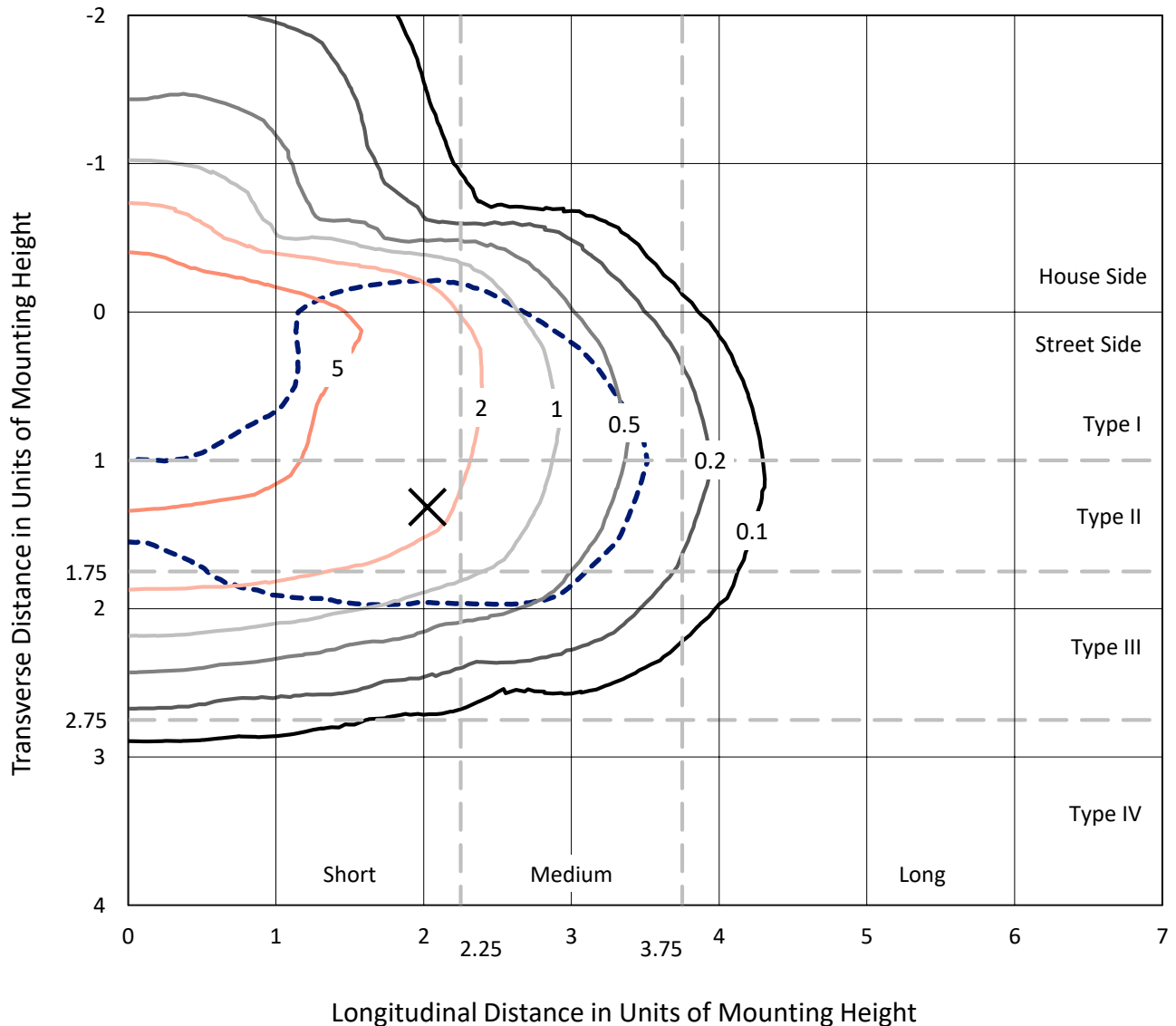
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

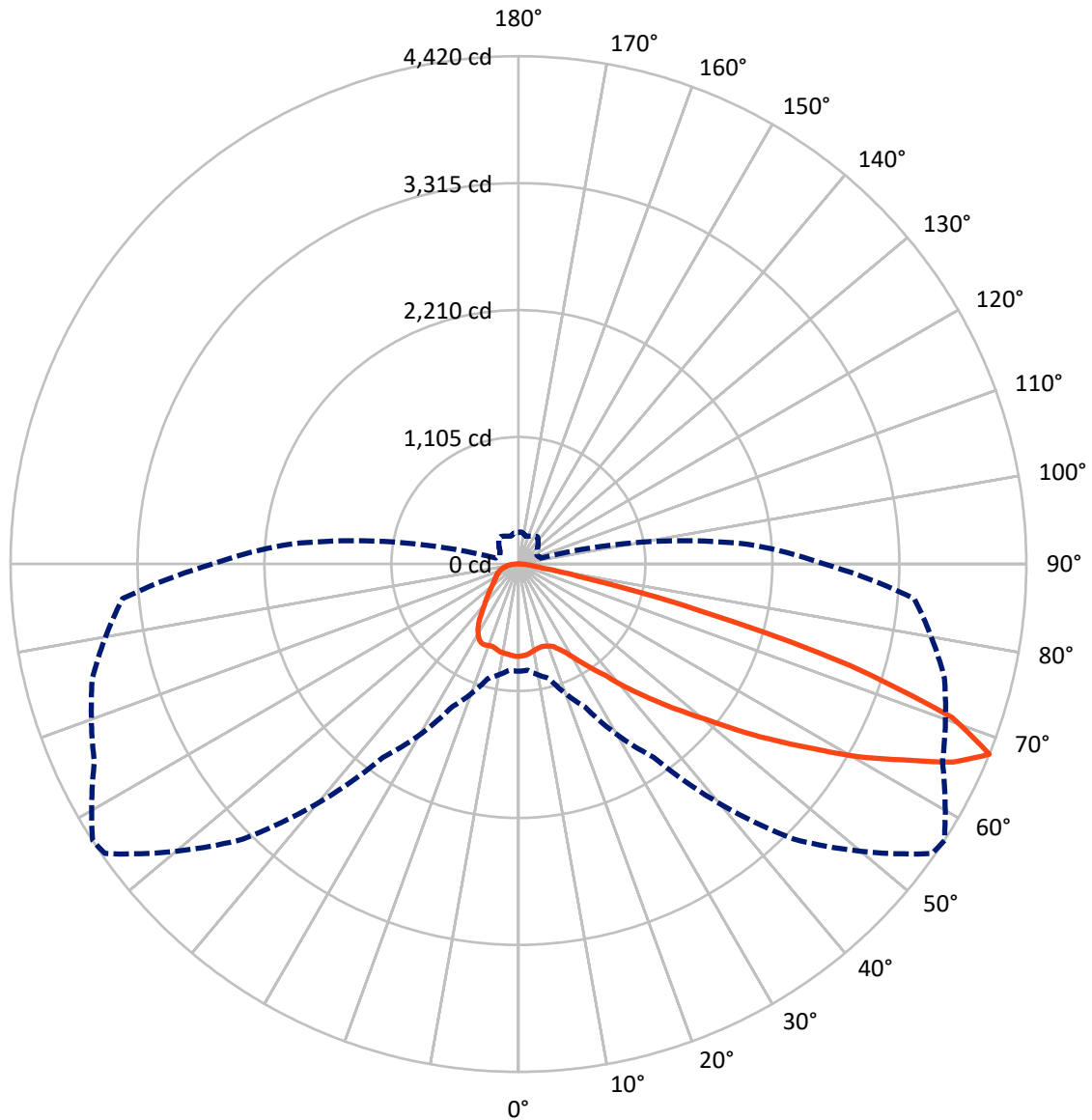
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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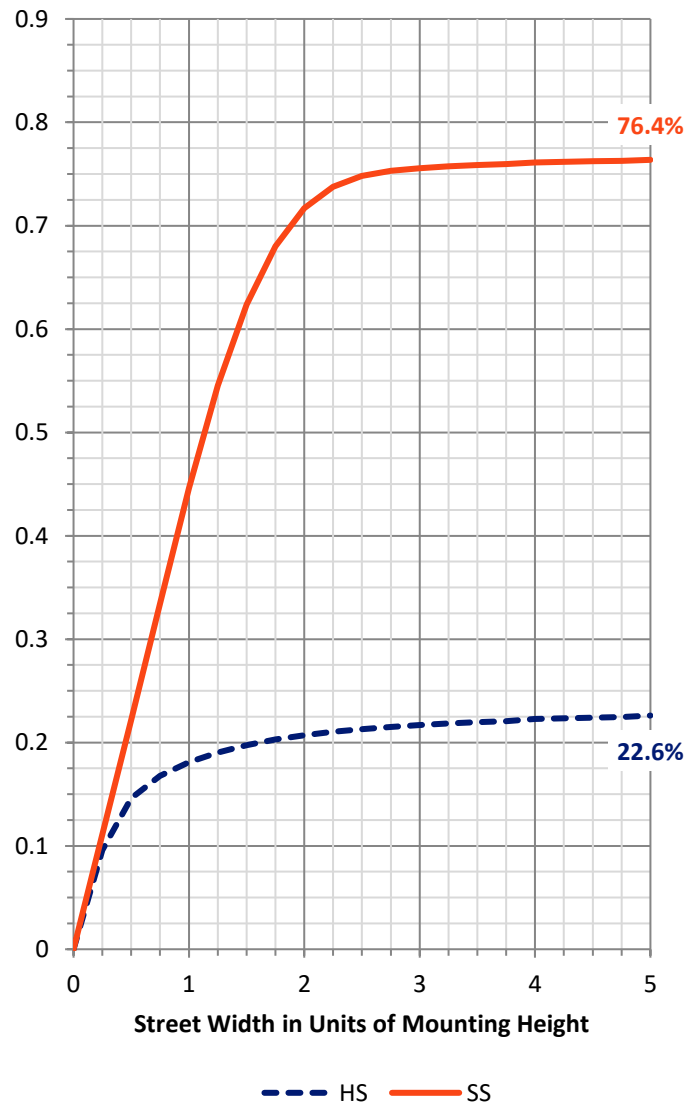
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1412.1	1.8	1413.8
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	4653.5	0.5	4654.0
	% Fixture	76.7	0.0	76.7
Total	Lumens	6065.5	2.3	6067.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.2
10°-20°	216.2	3.6
20°-30°	372.0	6.1
30°-40°	604.8	10.0
40°-50°	975.6	16.1
50°-60°	1454.4	24.0
60°-70°	1638.0	27.0
70°-80°	631.5	10.4
80°-90°	97.9	1.6
90°-100°	2.3	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6065.5	100.0
0°-180°	6067.8	100.0



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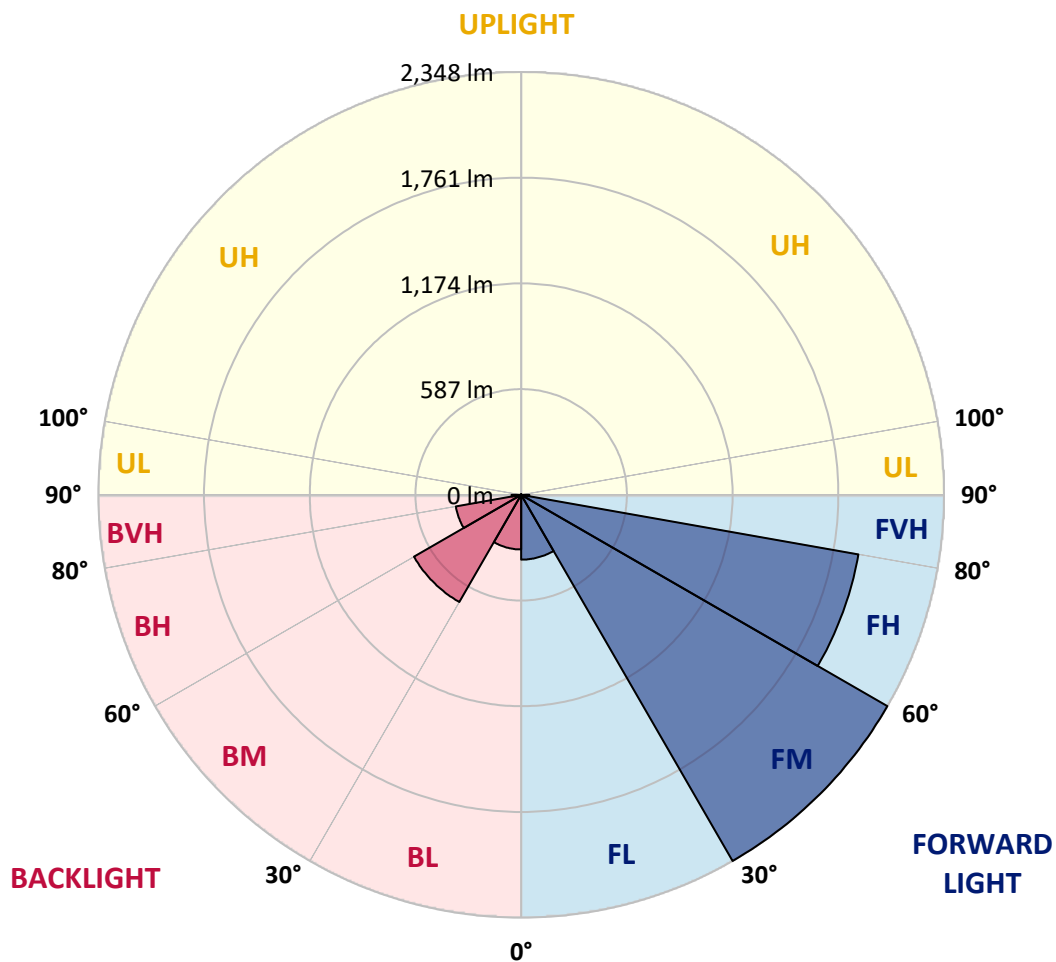
CATALOG NUMBER: IST-AF-1000-LED-E1-T3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.9	5.9			
FM	(30°-60°)	2347.5	38.7			
FH	(60°-80°)	1901.1	31.3			G2/5000
FVH	(80°-90°)	44.9	0.7			G1/100
BL	(0°-30°)	303.4	5.0	B1/500		
BM	(30°-60°)	687.3	11.3	B1/1000		
BH	(60°-80°)	368.5	6.1	B1/500		G1/500
BVH	(80°-90°)	52.9	0.9			G1/100
UL	(90°-100°)	2.3	0.0		U1/10	
UH	(100°-180°)	1.8	0.0		U1/10	

BUG Rating: B1-U1-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	804.1	804.1	804.1	804.1	804.1	804.1	804.1	804.1	804.1	804.1	804.1
2.5°	797.9	799.7	801.5	800.6	800.6	800.6	800.6	798.8	801.5	801.5	799.7
5°	784.8	785.6	786.5	788.3	790.0	791.8	792.7	792.7	793.6	792.7	790.9
7.5°	765.4	766.3	769.8	769.8	771.6	775.1	776.9	778.6	781.2	781.2	780.4
10°	759.3	759.3	759.3	756.6	758.4	759.3	761.9	761.9	768.9	772.5	774.2
12.5°	766.3	765.4	765.4	758.4	752.2	749.6	752.2	753.1	761.0	766.3	769.8
15°	782.1	782.1	780.4	769.8	757.5	747.9	747.0	747.0	753.1	761.0	767.2
17.5°	819.0	822.6	810.2	793.6	773.3	757.5	751.4	750.5	754.9	761.0	767.2
20°	889.3	888.5	870.0	840.1	805.0	778.6	763.7	761.9	761.0	764.6	771.6
22.5°	972.8	969.3	947.3	909.6	861.2	812.9	783.9	780.4	773.3	776.0	785.6
25°	1062.5	1063.3	1036.1	986.9	926.2	868.2	824.3	820.8	805.9	804.1	814.6
27.5°	1152.1	1163.5	1126.6	1080.0	1008.0	938.6	874.4	869.1	855.9	851.6	862.1
30°	1283.0	1278.6	1232.9	1172.3	1100.2	1013.2	951.7	942.1	915.7	921.9	933.3
32.5°	1393.8	1403.4	1362.1	1290.1	1195.2	1103.8	1032.6	1027.3	1001.8	1008.9	1024.7
35°	1529.1	1551.9	1497.5	1408.7	1317.3	1223.3	1138.0	1124.0	1103.8	1117.8	1130.1
37.5°	1683.8	1695.2	1653.0	1538.8	1445.6	1347.2	1250.5	1228.6	1206.6	1235.6	1257.6
40°	1831.4	1849.9	1795.4	1698.7	1590.6	1496.6	1391.1	1386.7	1335.8	1367.4	1424.5
42.5°	2050.2	2073.1	1986.1	1873.6	1776.0	1662.7	1562.5	1538.8	1483.4	1528.2	1624.0
45°	2203.1	2202.3	2143.4	2050.2	1990.5	1880.6	1745.3	1717.2	1657.4	1717.2	1845.5
47.5°	2258.5	2271.7	2251.5	2240.0	2219.0	2139.0	1939.5	1913.1	1856.9	1945.6	2064.3
50°	2340.2	2336.7	2336.7	2407.0	2467.7	2451.0	2167.1	2129.3	2070.4	2176.8	2347.3
52.5°	2361.3	2329.7	2378.9	2513.3	2705.8	2719.9	2431.6	2410.5	2340.2	2443.9	2654.0
55°	2302.4	2294.5	2372.7	2567.8	2871.0	2971.2	2738.3	2709.3	2630.2	2719.0	2985.3
57.5°	2170.6	2190.8	2316.5	2556.4	2985.3	3192.7	3074.9	3033.6	2920.2	2973.8	3313.9
60°	2032.6	2042.3	2208.4	2516.0	3016.0	3346.4	3428.2	3404.4	3210.2	3241.9	3557.4
62.5°	1879.7	1856.9	2029.1	2482.6	2981.7	3558.2	3770.9	3752.4	3523.1	3513.4	3730.5
65°	1452.6	1484.3	1631.0	2052.0	2747.1	3723.4	4179.5	4155.8	3872.0	3737.5	3712.0
67.5°	933.3	927.1	1030.8	1371.8	2052.9	3384.2	4393.1	4419.5	4071.4	3838.6	3457.2
70°	334.8	344.5	383.2	623.1	1125.7	2255.0	3872.8	4003.8	3924.7	3649.6	2813.9
72.5°	203.9	203.9	232.0	280.3	456.1	1069.5	2760.3	3019.5	3203.2	3007.2	2078.3
75°	159.9	159.1	168.7	193.3	246.1	350.6	1467.6	1667.9	2054.6	2077.5	1182.9
77.5°	126.5	125.7	135.3	146.8	183.7	185.4	468.4	609.9	942.9	887.6	422.7
80°	101.9	101.1	108.1	111.6	134.5	128.3	188.1	217.9	330.4	290.0	182.8
82.5°	92.3	92.3	99.3	85.2	93.2	90.5	116.9	124.8	166.1	172.2	109.8
85°	59.8	61.5	93.2	82.6	60.6	55.4	74.7	79.1	103.7	113.4	53.6
87.5°	28.1	30.8	71.2	68.5	40.4	29.9	42.2	44.8	56.2	69.4	31.6
90°	5.3	5.3	8.8	9.7	5.3	5.3	7.0	6.2	6.2	8.8	8.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: IST-AF-1000-LED-E1-T3-7050

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	804.1	804.1	804.1	804.1	804.1	804.1	804.1	804.1	804.1	804.1	804.1
2.5°	802.3	800.6	801.5	802.3	803.2	805.9	806.7	806.7	806.7	805.9	807.6
5°	792.7	790.9	790.9	793.6	796.2	799.7	805.0	809.4	811.1	812.0	812.0
7.5°	782.1	780.4	781.2	785.6	790.0	792.7	797.9	800.6	807.6	807.6	809.4
10°	775.1	776.9	777.7	782.1	785.6	785.6	784.8	783.0	781.2	785.6	783.9
12.5°	770.7	773.3	772.5	777.7	779.5	772.5	761.9	747.9	746.1	747.9	749.6
15°	768.9	768.9	771.6	771.6	762.8	748.7	735.6	736.4	738.2	743.5	743.5
17.5°	768.9	769.8	771.6	765.4	749.6	737.3	734.7	732.0	722.4	719.7	717.1
20°	775.1	773.3	775.1	763.7	749.6	739.9	719.7	700.4	681.9	674.0	670.5
22.5°	790.0	787.4	786.5	775.1	757.5	725.0	685.5	655.6	623.9	613.4	609.9
25°	816.4	815.5	809.4	801.5	752.2	689.0	638.9	591.4	557.2	538.7	539.6
27.5°	863.0	863.0	859.5	824.3	725.0	644.2	576.5	528.2	493.0	475.4	472.8
30°	933.3	935.0	936.8	830.5	681.9	578.2	507.9	475.4	454.3	441.2	440.3
32.5°	1020.3	1029.9	1018.5	823.4	623.1	498.3	454.3	442.9	432.4	423.6	422.7
35°	1135.4	1161.8	1089.7	795.3	557.2	443.8	421.8	413.9	406.0	399.9	400.7
37.5°	1290.1	1315.6	1135.4	747.9	472.8	413.0	403.4	391.1	378.8	365.6	363.8
40°	1472.9	1464.9	1151.2	658.2	420.1	398.1	384.9	369.1	348.0	328.7	325.2
42.5°	1655.6	1602.9	1138.0	547.5	385.8	384.9	366.5	346.2	325.2	308.5	308.5
45°	1860.4	1724.2	1097.6	443.8	358.5	370.9	348.0	326.9	307.6	295.3	294.4
47.5°	2053.7	1837.6	1030.8	370.0	331.3	352.4	333.9	314.6	296.2	285.6	283.0
50°	2280.5	1966.7	979.9	319.9	304.9	333.9	326.0	308.5	290.9	278.6	276.8
52.5°	2509.8	2092.4	941.2	285.6	281.2	319.9	322.5	312.0	293.5	269.8	268.0
55°	2749.7	2249.7	863.9	258.4	260.1	309.3	326.9	319.0	305.8	267.2	265.4
57.5°	2951.0	2394.7	728.5	239.9	243.4	301.4	328.7	313.7	298.8	268.9	266.3
60°	3108.3	2494.0	534.3	225.0	228.5	292.6	320.8	295.3	275.9	268.9	264.5
62.5°	3156.6	2497.5	355.0	207.4	217.1	277.7	306.7	285.6	262.8	266.3	264.5
65°	3035.4	2365.7	254.0	190.7	207.4	260.1	300.5	275.9	256.6	270.7	268.9
67.5°	2661.9	1993.1	203.9	177.5	194.2	241.7	289.1	267.2	251.3	280.3	275.1
70°	2074.0	1429.8	173.1	164.3	180.2	224.1	273.3	257.5	244.3	272.4	265.4
72.5°	1367.4	841.9	152.9	152.0	163.5	209.2	255.7	248.7	232.9	246.9	236.4
75°	713.6	390.2	132.7	138.0	145.0	196.0	239.9	232.9	215.3	220.6	217.1
77.5°	280.3	182.8	115.1	121.3	129.2	176.6	219.7	212.7	197.7	193.3	192.5
80°	153.8	123.0	95.8	103.7	109.0	159.1	198.6	190.7	174.9	172.2	169.6
82.5°	97.5	80.0	79.1	84.4	91.4	141.5	178.4	166.1	152.9	180.2	145.9
85°	45.7	47.5	56.2	63.3	71.2	120.4	155.5	142.4	129.2	125.7	111.6
87.5°	25.5	31.6	36.9	43.1	49.2	84.4	123.0	110.7	96.7	82.6	85.2
90°	6.2	6.2	10.5	9.7	10.5	12.3	60.6	54.5	48.3	22.8	14.9
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P226481

CATALOG NUMBER: IST-AF-1000-LED-E1-T3-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)